

1           a second connected to said first servers, which controls and analyzes queries about  
2           said database, including a data retrieval query to retrieve data from selected ones of said  
3           first servers, and a sub-data utilization query to retrieve only selected sub-data items from  
          said data retrieved from a database operation.

1           **50.**     A database system according to claim **49**, wherein said data retrieved from  
2           said database operation contains sub-data items corresponding to attributes of an Abstract  
3           Data Type (ADT).

1           **51.**     A database system according to claim **50**, wherein said second server  
2           retrieves said sub-data items of said data from said selected ones of said first servers based  
3           on location information and dictionary information concerning locations of said sub-data  
4           items within said data and sub-data identifiers necessary for said queries.

1           **52.**     A database system according to claim **51**, wherein said location information  
2           comprises an identifier of said selected ones of said first servers having retrieved said data  
3           and an address of said data within said selected ones of said first servers.

1           **53.**     A database system according to claim **52**, wherein said dictionary  
2           information of locations of said sub-data items within said data comprises offset values  
3           representing locations of said sub-data items relative to a starting address, said sub-data  
4           items being clustered within said data.--